

Transitioning to IPMDAR

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- ▶ **IPM Division Update**
- ▶ **IPMDAR Overview**
- ▶ **EVM-CR Reporting Requirements**
- ▶ **EVM-CR Workflow**
- ▶ **IPMDAR Tools**
- ▶ **IPMDAR Compliance**
- ▶ **Reminders & Recommendations**
- ▶ **Questions**

Mission Statement

- Promoting data driven decisions that improve acquisition outcomes through recognized management practices, flexible policy and guidance, innovative methods and IPM knowledge/expertise.

Organizational Pillars



Promoting IPM Disciplines

Promote IPM disciplines on all programs across the **Adaptive Acquisition Framework** through identification of **best practices**



Creating Flexible Policy and Guidance

Equip Program Managers with Integrated Program Management tools that are **tailored** to the needs of the program



Innovating at the Speed of Relevance

Become the **center of excellence** for IPM methodologies through **data analytics**, IPM innovation cell, and repository of IPM approaches, **lessons learned**, and best practices



Fostering IPM Expertise and Knowledge

Improve and maintain IPM **expertise and knowledge** in conjunction with DAU, Government, and industry

IPM Public Website: <https://www.acq.osd.mil/evm/#!/home>

► Pre-PARCA: CPR & VARs DID and IMS DID

- Separate (disconnected) deliverables
- CPR (Format 1-4) is a printable report format (and EDI 839)
- IMS is a native tool format (or a printed image of a GANTT)

► PARCA (2012): IPMR DID Combines CPR, VARs and IMS

- Reporting requirements aligned to capture cost/schedule data integrated
- Adopted UNCEFACT XML⁽¹⁾ Schema for all formats
 - Formats 1-4 mostly untouched (EDI839 to XML); plus printable reports
 - Introduced Format 6: XML snapshot of IMS (plus native)
 - Introduced (misunderstood) Format 7: Time-phased Format 1

► AAP (2020): IPMDAR (EVMS Data, Not Printable Reports)

- Corrects technical defects with cost/schedule integration
- JSON⁽¹⁾ encoding replaces XML
 - Format 6 mostly untouched (replaced with IPMDAR SPD)
 - Replace Formats 1-4, 7 with data more closely aligned to contractor EVMS (no requirement for printable reports)
 - Human readable Performance Narrative replaces Format 5
- Reframed concept of VARs to facilitate conversation (what is needed by Govt)

(1) XML: eXtensible Markup Language; JSON: JavaScript Object Notation

IPMR Strengths / Purpose

- Performance analysis at reporting level (e.g. WBS, OBS)
- Gold Card Analytics (CPI, SPI, VAC, TCPI, EAC)

Limitations / Weakness

- Visibility into management controls (WBS & OBS vs. CA/WP)
- Visibility into execution plan (partial future forecast reporting)
- Limitations for cost/schedule integration visibility
- Visibility into retroactive contract changes

IPMDAR Same Strengths / Capability

- Generate performance analysis at reporting level (e.g. WBS, OBS)
- Gold Card Analytics (CPI, SPI, VAC, TCPI, EAC)
- Can generate legacy formats

And So Much More...

- CA or WP visibility
- Hours and dollars
- Element of Cost visibility
- Fully time-phased future plan
- Positive traceability between cost and schedule
- Visibility into retroactive contract changes with time-phased To Date

Greater Focus On Forward Looking Analytics

► IPMDAR DID Reference

- 1.2 The IPMDAR consists of the following three components:
- 1.2.1 Contract Performance Dataset (CPD). Provides performance/execution data from the contractor's existing management systems.
 - 1.2.2 Schedule (Comprised of both the Native Schedule File and the Schedule Performance Dataset (SPD)). Provides data from the contractor's Integrated Master Schedule (IMS).
 - 1.2.3 Performance Narrative Report (Comprised of both the Executive Summary and the Detailed Analysis Report). Provides narrative analysis of data provided in the CPD and the Schedule.

► IPMDAR vs. IPMR

IPMDAR	IPMR
CPD - Contract Performance Dataset (JSON)	Formats 1-4 & 7 XML (UN/CEFACT)
SPD - Schedule Performance Dataset	Format 6 XML (UN/CEFACT)
Native Schedule	Native Schedule
Performance Narrative (Contractor Format) <ul style="list-style-type: none"> Executive Summary Variance Analysis 	Format 5
Not Required	Formats 1-4 (Human Readable)

IPMDAR Is A Data Snapshot from the EVMS

► What Is It?

- A collection of JSON encoded data tables
- A generic database model of an EVMS

► Key Components

- **Metadata** / Contract Level
- **Structures** (cost & schedule)
- **Detailed Data**
 - To Date
 - To Complete
 - Cumulative Reprogramming
 - Schedule Dates & Durations
 - Task Relationships
 - Resource Utilization

CPD Data Tables	SPD Data Tables
Dataset Configuration	Dataset Metadata
Dataset Metadata	Source Software Metadata
Source Software Metadata	Project Schedule Data
Contract Data	Proj. Custom Field Definitions
Summary Performance	Proj. Custom Field Values
Custom Summary Performance	Calendars
Summary Indirect (To Date)	Calendar Workshifts
Summary Indirect (To Complete)	Calendar Exceptions
Subcontractors	Tasks
Work Breakdown Structure	Task Schedule Data
Org. Breakdown Structure	Task Custom Field Definitions
Control Accounts	Task Custom Field Values
CA Custom Field Definitions	Task Constraints
CA Custom Field Values	Task Relationships
Work Packages	Task Outline Structure
WP Custom Field Definitions	Resources
WP Custom Field Values	Res. Custom Field Definitions
Reporting Calendar	Res. Custom Field Values
BCWS (To Date)	Resource Assignments
BCWP (To Date)	
ACWP (To Date)	
BCWS (To Complete)	
EST (To Complete)	
Reprogramming Adjustments	

Defined in IPMDAR File Format Specification (FFS) Documents

► General

- Most metadata and contract/effort data maintained
- Removed
 - Quantity
 - Share Ratio
 - EVMS Acceptance

► Format 1 (WBS) & Format 2 (OBS)

- WBS and OBS structures provided
- Data provided by control account or work package
 - Dollars & Hours, Element Of Cost, direct or “loaded”
 - Cumulative to date or time phased
 - Time phased future BCWS and ETC
 - Optional detailed (CA or WP) indirect charges
 - Reprogramming adjustments (if needed)
- Data provided in the CPD can be used to generate Format 1 & 2 (a comparison between current period report and prior period report will derive current period data)

► **Format 3 (Baseline Changes)**

- BCWR (e.g. BCWS To Complete) is provided time phased by CA or WP
- PMB (time phased) at End of Period is derived from CA/WP to-complete data
- PMB at Beginning of Period is derived from EOP from prior period report
- Baseline changes derived at CA or WP levels by differencing submission files
 - Traceable to the WBS or OBS
 - Dollars, hours, EOC, etc

► **Format 4 (Staffing)**

- Metadata / Contract Level
- Structures (cost & schedule)
- Detailed Data

Data from Format 3 and 4 are captured within CPD

► IPMR

- All UNCLASSIFIED ACAT I programs required to submit

► IPMDAR

- All UNCLASSIFIED programs required to submit – regardless of ACAT designation

► IPMDAR DID Reference

- 1.5 Data Repository. The Office of the Under Secretary of Defense (OUSD) Acquisition, Analytics and Policy (AAP) Earned Value Management (EVM) Division maintains a secure website, the Earned Value Management Central Repository (EVM-CR)², for all unclassified, proprietary and non-proprietary data from programs and contracts that have EVM reporting requirements, regardless of a program's Acquisition Category (ACAT) designation or a contract's value. The EVM-CR is housed on an unclassified computer system designed to control sensitive and proprietary contractor data. The system will accept only unclassified data including contracts with EVM data that are marked as For Official Use Only (FOUO), Business Sensitive, and/or Proprietary. No classified material shall be provided to the EVM-CR. Refer to DoD Manual 5200.01 Volume 4 for information regarding designation and marking of Controlled Unclassified Information (CUI).

► 5000.85 Major Capability Acquisition (MCA) Pathway

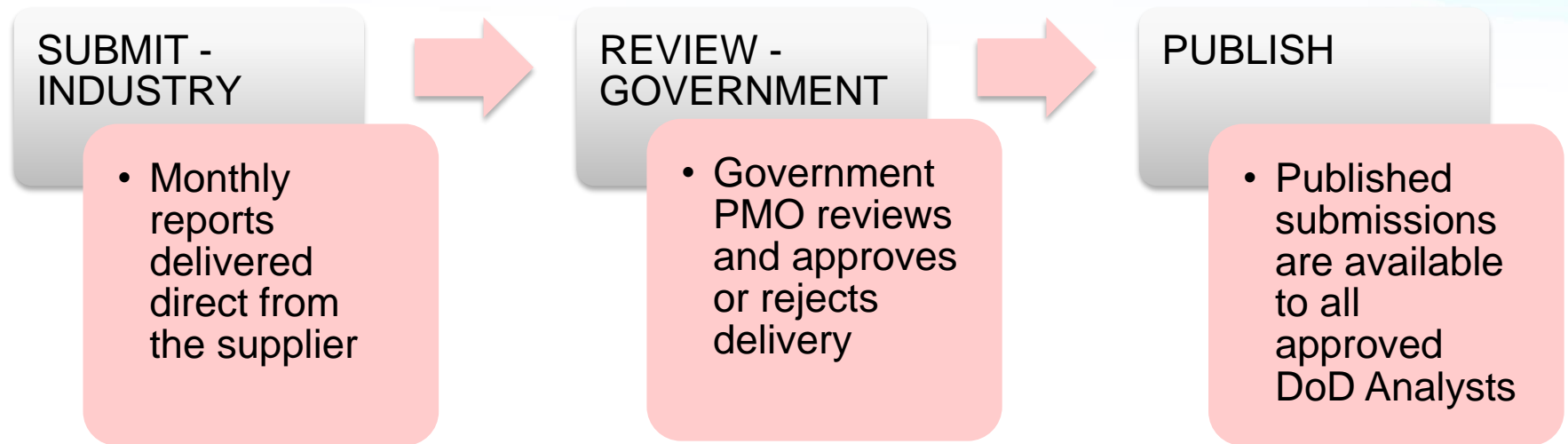
- All programs required to submit to the EVM-CR

EVMS Reporting Requirements Table

<u>Contract Value</u>	<u>Applicability</u>	<u>Notes</u>	<u>Source</u>
< \$20M	Not required	IPMDAR may be used if cost and/or schedule reporting is requested by the program management office	Integrated Program Management Report DID DI-MGMT-81861B*
≥ \$20M & < \$100M	Required monthly when EVMS requirement is on contract	All IPMDAR datasets/ files must be included in the CDRL. Tailoring in accordance with DI-MGMT-81861B and Implementation Guide is allowed.	
≥ \$100M	Required monthly when EVMS requirement is on contract	IPMDAR is required. All files are required.	
<u>Additional Information</u>			
<p>All contracts, task orders, and delivery orders, IPMDAR data will be delivered to the EVMS Central Repository.</p> <p>The IPMDAR can be tailored to collect cost and/or schedule data for any contract regardless of whether EVMS is required. For information on tailoring the IPMDAR, refer to the DoD IPMDAR Implementation Guide.</p> <p>Formats and reporting requirements for the IPMDAR are determined and managed by USD(A&S) through the Office of Acquisition Analytics and Policy (AAP).</p> <p>Reporting thresholds are in then-year dollars.</p> <p>* DI-MGMT-81861B = Data Item Management-81861</p>			

Any contracts >\$20M with EVM Reporting requirements must submit to the EVM-CR – independent of pathway

- The EVM-CR is a data repository managed by the IPM division of OUSD(A&S) AAP, the office of Acquisition, Analytics and Policy.
- The purpose of the EVM-CR is to establish a source of authoritative Earned Value Management (EVM) data for the Department and to provide prompt access for PMOs, Services, OSD, and DoD Components.





IPMDAR doesn't change this process

EVM-CR Access Request and User Roles

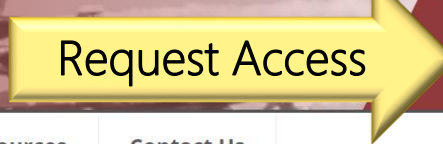
Access — Request via AAP IPM public website

<https://www.acq.osd.mil/evm/#/home>

**IPM** Integrated Program Management
A Division of Acquisition, Analytics and Policy



EVM-CR
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Industry

Submitter

RESPONSIBLE FOR
Delivery of reports

APPROPRIATE FOR
Industry contractors

Industry Reviewer

RESPONSIBLE FOR
Oversight of reports
delivered by all
submitters from their
organization

APPROPRIATE FOR
Industry contractors

ACCESS EVM-CR via

- External Certification Authority (**ECA**) certificate
- Certificates issued by major contractors Boeing, Northrup Grumman, Raytheon, and Lockheed Martin

Government

Reviewer

RESPONSIBLE FOR
Reviewing, approving, and
publishing reports

Managing submitters and
reviewers assigned to
efforts

APPROPRIATE FOR
Program Office

ACCESS EVM-CR via

- Common Access Card (**CAC**)
- NDAs: Support contractors must obtain and submit NDAs in order to gain reviewer or analyst permissions

Analyst

ALLOWED TO
View and download
published reports

APPROPRIATE FOR
DoD



▶ Legacy IPMR Delivery Requirement

- 12-17 Days after the close of the contractors accounting period

▶ IPMDAR Delivery Requirement

- Monthly submissions should be delivered to the EVM-CR **NLT 16 days** after the close of the contractor accounting period.

▶ IPMDAR DID Reference

1.8 Delivery Timing.

- 1.8.1 Monthly Submission Requirement. IPMDAR data shall be required at least monthly. The reporting frequency shall be specified in the Contract Data Requirements List (CDRL). All reports shall reflect data from the same accounting period and shall be provided at any time after the close of the contractor's accounting period, but no later than sixteen (16) business days after the contractor's accounting period end date.

► IPMDAR DID Reference

1.8.1.1 Incremental Delivery. Reports may be provided incrementally, including preliminary data, with the number of days for delivery of each submittal tailored in the CDRL. Data delivered is not considered authoritative until the final submission and signature. The recommended incremental delivery process is the Schedule, followed by the CPD and the Executive Summary, Government review of submittals, Government directed Detailed Analysis, Contractor Detailed Analysis delivery and all final data.⁵

► IPMDAR Implementation & Tailoring Guide - Example

For notional and guidance purposes the incremental delivery plan could be constructed as follows:

1. SPD – To be delivered with native file five (5) working days after the end of the contractor's accounting period (may be labeled preliminary)
2. CPD – To be delivered with the Executive Summary ten (10) working days after the end of the contractor's accounting period (may be labeled preliminary)
3. Contracting Office to select items for detailed analysis (variances) – to contractor thirteen (13) working days after the end of the contractor's accounting period
4. Performance Narrative Analysis – to be delivered NLT sixteen (16) working days after the end of the contractor's accounting period along with any other "final" versions of previously submitted files

Note: The notional incremental delivery plan above is not additive.

► CDRLs Determine Reporting Requirements

- IPMDAR DID is put on contract
- CDRLs created and sent to EVM-CR Admins
- Admins establish reporting requirements
- EVM-CR measures compliance against CDRL requirements (monthly reports sent to Services, Components and Industry corporate focal points).

Selected DID

IPMDAR
IPMR
CPR/IMS

Cost	Submit Days	Submit Day Type	Frequency
Contract Performance Dataset	16	Business	Monthly

Schedule	Submit Days	Submit Day Type	Frequency
Schedule Performance Dataset	16	Business	Monthly
Native Schedule	16	Business	Monthly

Performance Narrative	Submit Days	Submit Day Type	Frequency
Executive Summary	16	Business	Monthly
Variance Analysis	16	Business	Monthly

CFSR	Submit Days	Submit Day Type	Frequency
CFSR	30	Calendar	Quarterly

Example: IPMDAR Default Reporting Requirements

1. Submitter should verify they are added to Contract Effort. If not, request access via the website. PMO Lead Reviewer responsible for assigning Submitters.

Enter Contract Number and click
“Send Request”

Please enter the contract number of the request.

Contract Number

< Contract Number >

Send Request

2. Submitter will click “Start Submission” to begin monthly submittal.







Start New Submission on Effort

Program	Contract	Effort	Effort Start Date	Effort End Date	
Jen's Program	ABCDE-00-A-0123	Delivery Order 1	7/1/2020	7/31/2025	Start Submission

What's New with Submit & Review Workflow?






- Delivery requirements clearly displayed with real time feedback:
 - ✓ File Uploaded
 - ✗ File Not Uploaded
- When file(s) are uploaded they are immediately accessible to gov't PMO.
- New "Open" status allows access by both gov't PMO and Submit team
- Cost & Schedule files contained in a single submission
- Immediate feedback on **Data Quality Validation Results**
- Program Office Review Team can now collaborate and vote to accept, reject or conditionally accept a file.
- Submit team and PMO can communicate via submission comments

Submitter Requirements Display

Reporting Requirements		
File Type	Upload	Included
Contract Performance Dataset		×
Schedule Performance Dataset		×
Native Schedule		×
Executive Summary		×
Variance Analysis		×
Other		

Reviewer Voting Display

Submission Files

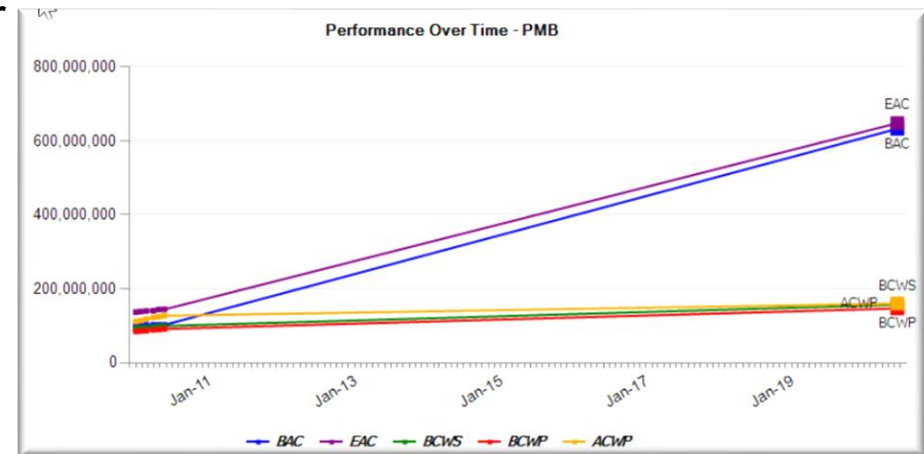
	File Name	File Type	Version	Upload Date	File Comment	Votes	My Vote
	Sample File.zip   	Electronic Cost (IPMDAR)	Final	10/29/2020		1 Accept	Accept 

► Data View — Reviewer and Submitter should verify data accuracy

Current Period Information		Report Information	IPMR Header
Current Period Report From: 1/1/2018 Report To: 1/31/2018	Report Information Program Name: Weapon System XYZ Phase: Development Contract: N0000-00-N-0000 Contract Type: CPFF Contractor: Demo Corporation	Maximum WBS Level: 4 IPMR ID: 684980 Final IPMR: Yes Remove Final IPMR	IPMR Header Dollars in: <input type="text" value="Thousands"/>
Processed Date Processed: 7/10/2020	Performance Measurement Baseline (PMB) MR: \$4,441,659 BAC: \$95,757,193 EAC: \$100,242,573 BCWS: \$20,474,837	BCWP: \$20,365,245 ACWP: \$21,170,891 CPI: 0.962 SPI: 0.995	Quantity: 5 Share Above: Share Below: Original NCC: \$62,135,242 NCC: \$65,405,518 CBB: \$72,672,798 TAB: \$100,198,852 AUW: \$7,267,280
Source Data Type Source: IPMDAR	Over Target Baseline (OTB) OTB Date: 1/31/2017 BAC Adjustment: \$26,637,722 SV Adjustment: \$918,857	CV Adjustment: \$2,839,229 MR Adjustment: \$888,332	IPMR Dates Contract Start Date: 1/1/2016 Contract Definition Date: 1/1/2016 Planned Completion Date: 8/31/2022 Contract Completion Date: 8/31/2022 Estimated Completion Date: 8/31/2022
File Details File ID: 397599 File Name: CPD Sample File.zip	Variances At Complete: -\$4,485,380 Cumulative Schedule: -\$109,592 Cumulative Cost: -\$805,646	Total Schedule: \$809,266 Total Cost: \$2,033,584	Contract Ceiling: Estimated Ceiling: Best Case EAC: \$93,798,757 Worst Case EAC: \$104,838,306 Most Likely EAC: \$100,242,573 Target Price: \$103,832,491 Estimated Price: \$103,832,491

► Data Validation Report — Provides listing of all data checks and indicates if file passed or failed, available to Submitter

► Performance Over Time Chart — Provides visual rendering of PMB data received since effort reporting started





XLS Export

Provides a tabular view of JSON tables and data



CSV Export

Provides data in Excel pivotable table







XML Export

Generates a legacy IPMR UN/CEFACT file from data provided in the IPMDAR JSON

Submission Files

Cost

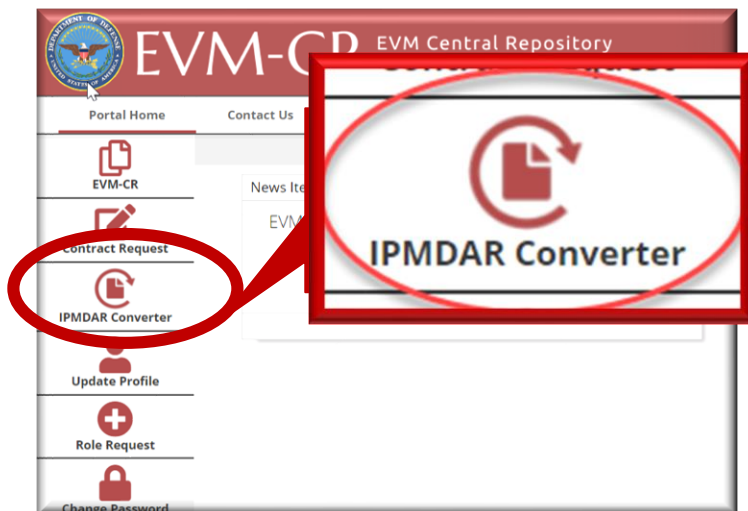
	File Name	Report Type
	CPD Sample File.zip	   Electronic Cost

Accessible to Industry/Government Users

IPMDAR File Converter

- Generates a legacy IPMR Cost – UN/CEFACT file from the IPMDAR CPD JSON file
- Generates a legacy IPMR Format 6 file from the IPMDAR SPD JSON file

**Web based tool
Requires EVM-CR Account**



Downloadable Tools

- **Validation Utilities** check the file against the DEI (Data Exchange Instructions)
 - CPD and SPD
- **Conversion Utilities** generate legacy IPMR formats from IPMDAR files
 - CPD and SPD



Available on our public website and do not require an EVM-CR account to download



Many government networks block the download of an executable file.

▶ IPMDAR DID (DI-MGMT-81861B) Released March 2020

- Supersedes June 2012 IPMR DID, July 2005 CPR DID, and July 2005 IMS DID
- Existing contracts utilizing IPMR requirements not mandated to update to IPMDAR
- Should be applied to new contracts

▶ IPMDAR result of collaboration with Industry and socialization with Tool Vendors

- Contact us if your contractor cannot provide IPMDAR deliverables

IPM Division contact info: OSD.DODEVM@mail.mil

Reminders:

- Do not require delivery of legacy IPMR or CPR Formats (UN/CEFACT, human readable formats 1 – 4* or legacy wInsight)
- Do not tailor out IPMR “Formats” (Format 1 – 4)
- Do not require a specific due date, such as delivery is required on the 25th of each month

**Excludes Performance Narrative, which is in human-readable contractor format*

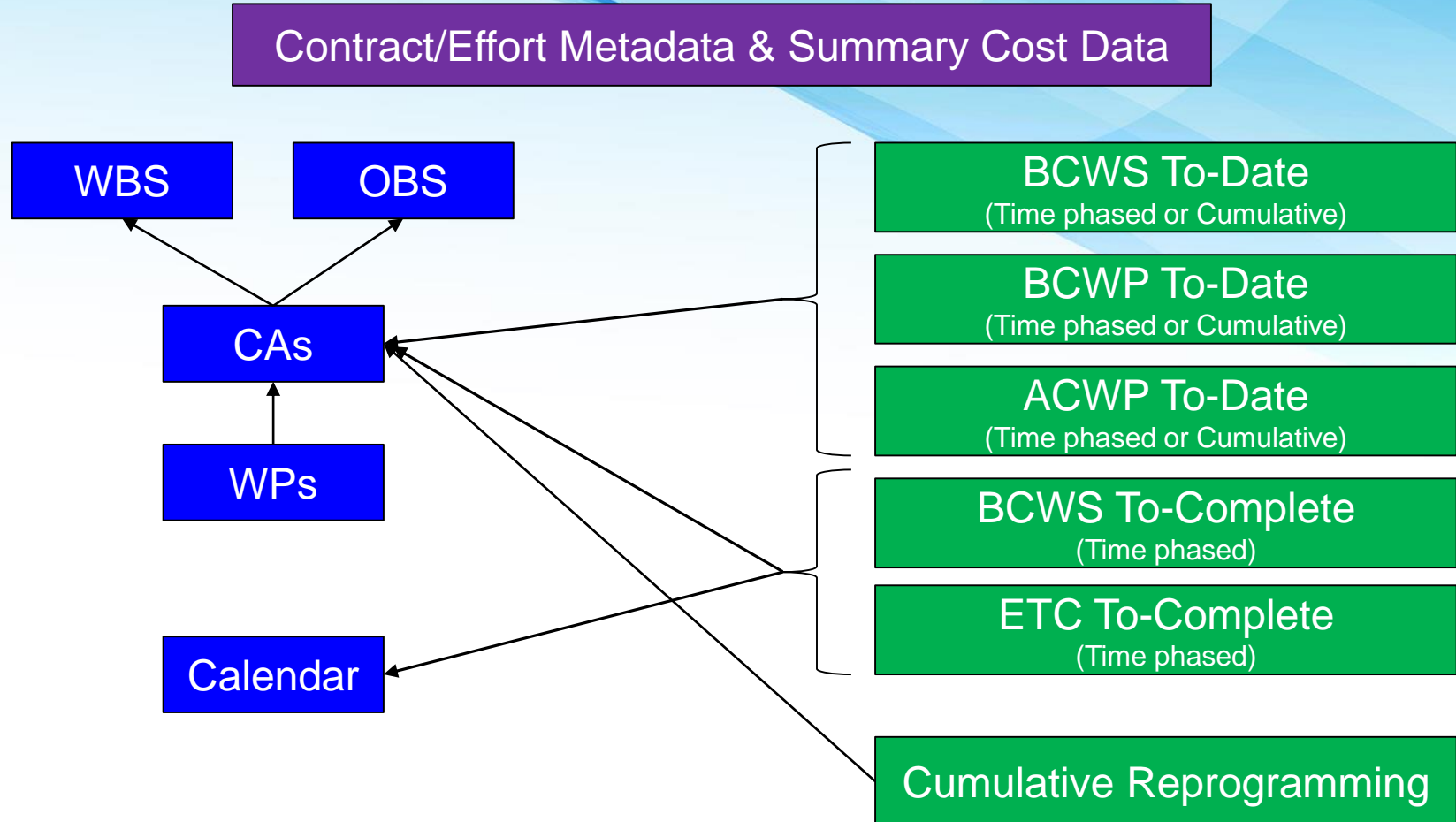
Recommendations:

- Discuss with contractor definition of “Business Days”
 - NLT 16 GOVERNMENT Business Days after the end of the contractors accounting period.

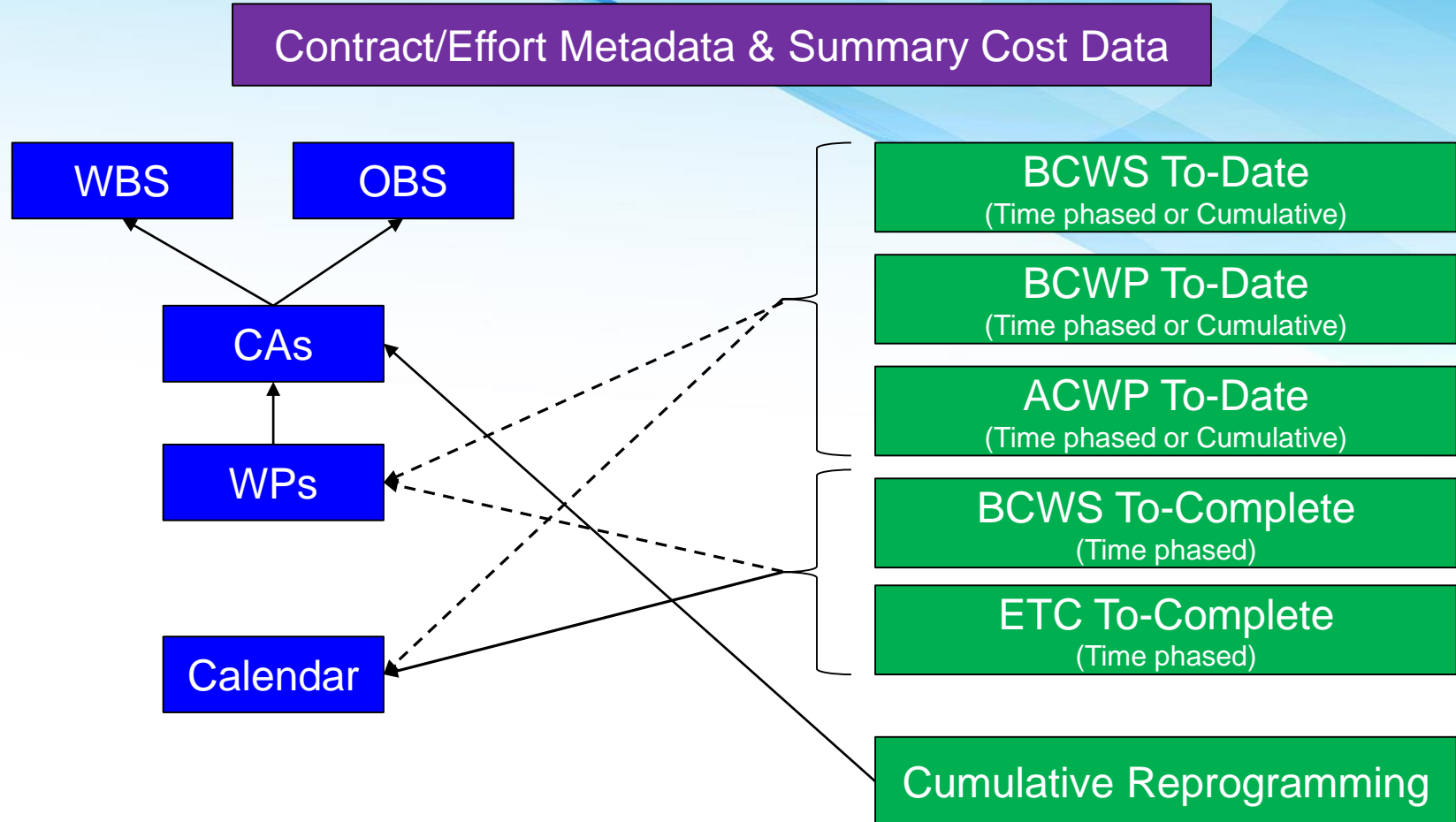


IPM Division contact info: OSD.DODEVM@mail.mil

Backup



Default Requirement: CA Level Data, To-Date Cumulative



Optional Extensions: WP Level Data, To-Date Time-Phased

► Data Contained in the CPD

- Hours
- Dollars
 - Total
 - By Element of Cost (Labor, Materials ODC, Sub)

► Are Cost Values Direct?

- The legacy Format 4 format indicates data is direct.
- EOC values should be considered direct
- In practice, data submissions make extensive use of the wInsight “NoAdd” flag

► The IPMDAR Support Multiple Representations

- Dollars can be reported as both direct and “loaded”
- EOC values can be reported as both direct and loaded
- Indirect values (OH, GA, COM) can be reported by CA/WP or in total

► Dataset Configuration Table Identifies Content

- Reporting by Control Account or Work Package
- To-Date data as cumulative or time-phased
- Reporting by Element of Cost (required by DID)
- Reporting “Direct” costs
- Reporting Indirect Costs at the detailed level (CA or WP)

The Fine Print Is Important

Constraints for this table depend on DatasetConfiguration as follows:

If ToDate_TimePhased has a value of true, ReportingPeriodID must not be null; otherwise, ReportingPeriodID must be null.

If BCWS_ToDate_ByWorkPackage has a value of true, WorkPackageID must not be null and ControlAccountID must be null; otherwise, ControlAccountID must not be null and WorkPackageID must be null.

If Detail_HasDirectValues has a value of true, Value_Dollars_Direct must not be null; otherwise, the Value_Dollars_Direct must be null.

If BCWS_ToDate_HasElementOfCostValues has a value of true, each of Value_Dollars_LAB, Value_Dollars_MAT, Value_Dollars_ODC, Value_Dollars_SUB must not be null; otherwise, each must be null.

If BCWS_ToDate_HasElementOfCostValues and Detail_HasDirectValues each have a value of true, each of Value_Dollars_LAB_Direct, Value_Dollars_MAT_Direct, Value_Dollars_ODC_Direct, Value_Dollars_SUB_Direct must not be null; otherwise, each must be null.

If Detail_HasIndirectValues has a value of true, each of Value_Dollars_OH, Value_Dollars_COM, Value_Dollars_GA must not be null; otherwise, each must be null.

If not null, ReportingPeriodID must have a value that is less than or equal to the value of ReportingPeriodID in DatasetMetadata.

BCWS To-Date

(Time phased or Cumulative)

Table	BCWS_ToDate		
Entity	BCWS_ToDate		
Fields	Name	Data Type	Nullable
	ControlAccountID	StringID	Conditional
	WorkPackageID	StringID	Conditional
	ReportingPeriodID	Integer	Conditional
	Value_Dollars	Decimal	No
	Value_Dollars_Direct	Decimal	Conditional
	Value_Dollars_LAB	Decimal	Conditional
	Value_Dollars_LAB_Direct	Decimal	Conditional
	Value_Dollars_MAT	Decimal	Conditional
	Value_Dollars_MAT_Direct	Decimal	Conditional
	Value_Dollars_ODC	Decimal	Conditional
	Value_Dollars_ODC_Direct	Decimal	Conditional
	Value_Dollars_SUB	Decimal	Conditional
	Value_Dollars_SUB_Direct	Decimal	Conditional
	Value_Dollars_OH	Decimal	Conditional
	Value_Dollars_COM	Decimal	Conditional
	Value_Dollars_GA	Decimal	Conditional
	Value_Hours	Decimal	No
Primary Key	ControlAccountID, WorkPackageID, ReportingPeriodID		
Foreign Keys	ControlAccountID: ControlAccount(ID) WorkPackageID: WorkPackage(ID) ReportingPeriodID: ReportingPeriod(ID)		

▶ Executive Summary

- A program and contract performance overview contains:
 - Top-level PM cost and schedule forecast
 - High-level variance summary
 - Undistributed budget (UB) and management reserve (MR) analysis

▶ Detailed Analysis Report

- Compilation of write-ups to describe the variances within a certain scope of the contract at the control account level.

► IPMDAR CDRL Tailoring Options

- Level of reporting (Work package, Control Account, WBS, etc.)
- Units (dollars or hours, both)
- Frequency (monthly, incremental, weekly, quarterly, annually, upon request)
- Variance Analysis Options (Government Identified Variances, Government Specified Variance Thresholds, Specific Number of Variances)
- Tailoring out “formats” (e.g., Schedule Only deliverable)
- Eliminating Performance Narrative Report and using internally generated Contractor Explanations or performance reviews
- Eliminating Schedule Data set and receiving Native Format Schedule only

Additional tailoring options discussed in the IPMDAR Implementation and Tailoring Guide; available on the EVM public website

► Acronyms

- CPD – Contract Performance Dataset
- DEI – Data Exchange Instructions
- DID – Data Item Description
- EVM-CR – Earned Value Management Central Repository
- FFS – File Format Specification
- IPMDAR – Integrated Program Management Data and Analysis Report
- IPMR – Integrated Program Management Report
- SPD - Schedule Performance Dataset

► References

- DEI & FFS
<https://www.acq.osd.mil/evm/#/policy-guidance/ipmdar-dei-ffs>
- DID
https://quicksearch.dla.mil/qsDocDetails.aspx?ident_number=278901
- Implementation & Tailoring Guide
<https://www.acq.osd.mil/evm/assets/docs/IPMDAR%20Implementation%20Guide%20-%20May2020%20-%20FINAL%20-%20Signed%20and%20Dated.pdf>
- Desktop Tools
<https://www.acq.osd.mil/evm/#/resources>